

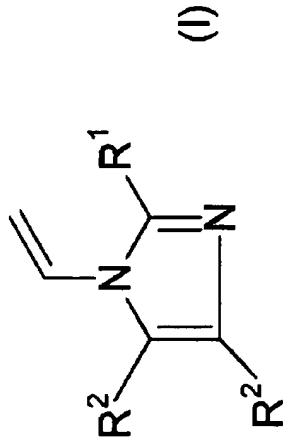
<p>2004-296124/28 A41 D21 (A12 A96) BADI 2002.08.12 BASF AG *DE 10237378-A1 2002.08.12 2002-1037378(+2002DE-1037378) (2004.03.11) C08F 26/00, A61K 7/06, C08F 2/38 Use of crosslinked cationic polymers prepared using a chain-transfer agent in hair cosmetics or as conditioners in cosmetics. C2004-113316 Addnl. Data: LYSANDER C, HOESSEL P, LEDUC M, WOOD C</p>	<p>A(4-D1, 10-E21, 12-V4A, 12-V4C) D(8-B4, 8-B9A)</p>
<p>NOVELTY Polymers produced by radical polymerization of monomer mixtures comprising cationic or quaternizable monomers (M1), optionally water-soluble monomers, optionally other comonomers, crosslinking agents with at least two nonconjugated ethylenically unsaturated double bonds and chain-transfer agents, and quaternization or protonation of the resulting polymers if M1 are not or only partially quaternized, are used in hair cosmetics or as conditioners in cosmetics.</p> <p>DETAILED DESCRIPTION INDEPENDENT CLAIMS are also included for: (1) polymers produced as above using a polyfunctional chain-transfer agent; (2) polymers produced as above in which M1 are selected from N-</p>	<p>alkyl diallylamines, N,N-dialkylaminoalkyl (meth)acrylates, N,N-dialkylaminoalkyl (meth)acrylamides and N,N-dialkylaminoalkyl N-methyl(meth)acrylamides, where all alkyl groups have 1-24 carbon atoms; (3) production of the new polymers as above.</p> <p>USE In hair cosmetics or as conditioners in skin or hair cosmetics, especially in shampoos.</p> <p>ADVANTAGE Cosmetic compositions containing the polymers have satisfactory viscosities at high polymer solids contents.</p> <p>EXAMPLE A polymer (P1) was prepared by polymerizing N-vinylpyrrolidone (85.9 g), 3-methyl-1-vinylimidazolium methyl sulfate (47.7 g) and triallylamine (0.75 g) in water in the presence of mercaptoethanol (0.3 g). A 10% aqueous solution of P1 had a</p>

DE 10237378-A+

viscosity of 450 mPas.

TECHNOLOGY FOCUS

Polymers - Preferred Polymers: These are copolymers N-vinylimidazoles of formula (I) and N-vinyl lactams and are prepared using a thiol chain-transfer agent:



R¹-R³ = H, 1-4C alkyl or phenyl.
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